

TAS 3074 B

T. H. 61

CO. RD. "C" IN MAPLEWOOD TO
WHITAKER ST. IN WHITE BEAR LAKE

S.P. 6222

AUGUST 1967

OFFICE OF
TRANSPORTATION SYSTEM PLANNING

MINNESOTA HIGHWAY DEPARTMENT

DEPARTMENT HIGHWAY

Office Memorandum

TO : Paul G. Velz
Road Design Engineer

DATE: August 8, 1967

FROM : Robert D. Owens, Chief
Traffic Analysis Section

SUBJECT: T.H. 61, S.P. 6222; Co. Rd. "C" in Maplewood
to Whitaker St. in White Bear Lake.
TAS 3074 B

The Traffic Analysis Section transmits this report in response to R. T. Peterson's March 22, 1967, request for the 1990 ADT, DHV, and HCADT for the project location as shown on the map on page 2.

For each segment numbered on the map on page 3 the following data are tabulated on pages 4-8.

- a) Total ADT
- b) Vehicle Type Distribution
- c) Total Heavy Commercial ADT

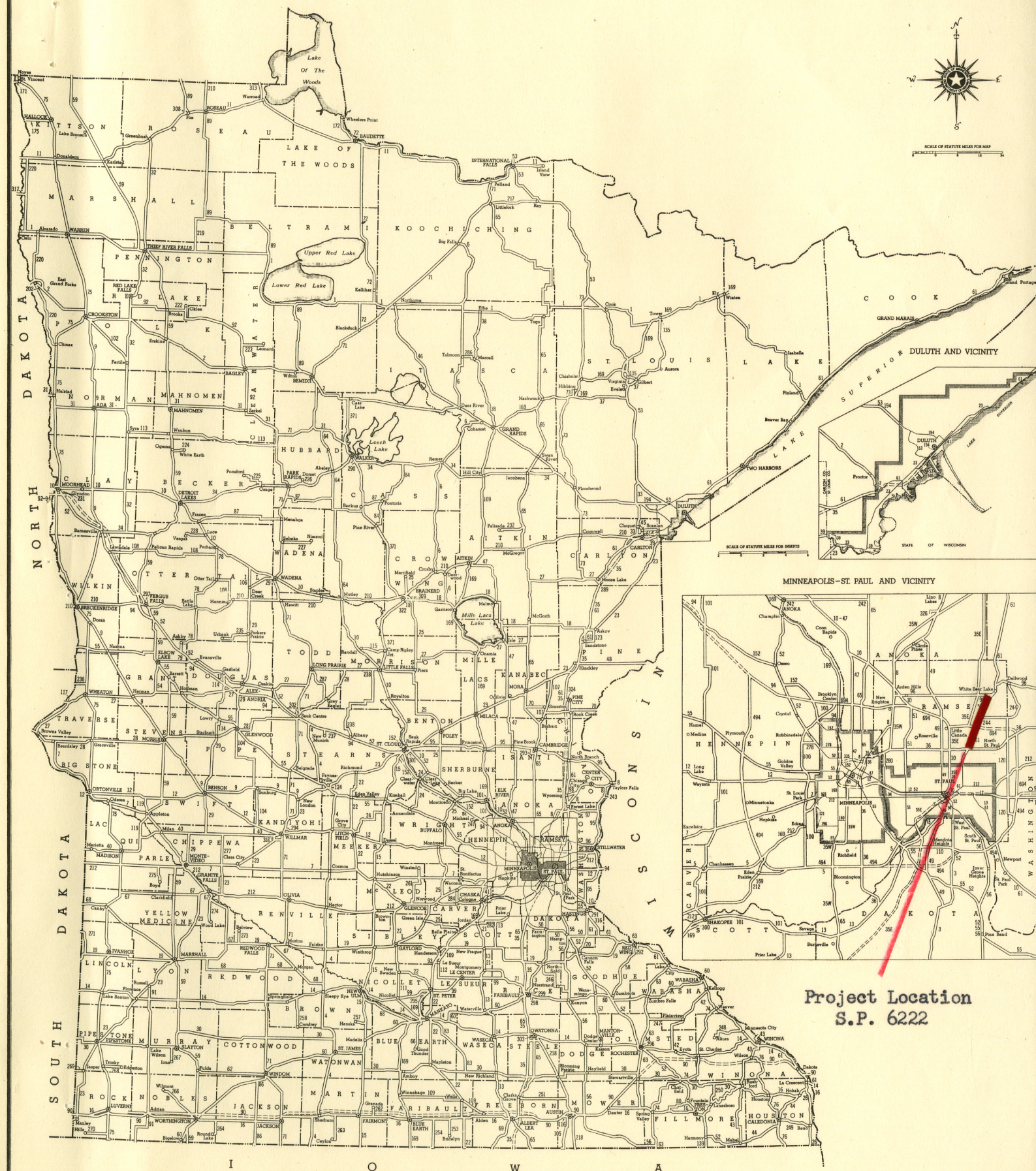
Segments 19 and 26, with a 1990 ADT of 45078, have the highest 1990 ADT on the project section of T.H. 61. The 1966 ADT for segment 19 is 18950, and for segment 26 is 14675.

The basic data, method, and assumptions are on page 9.

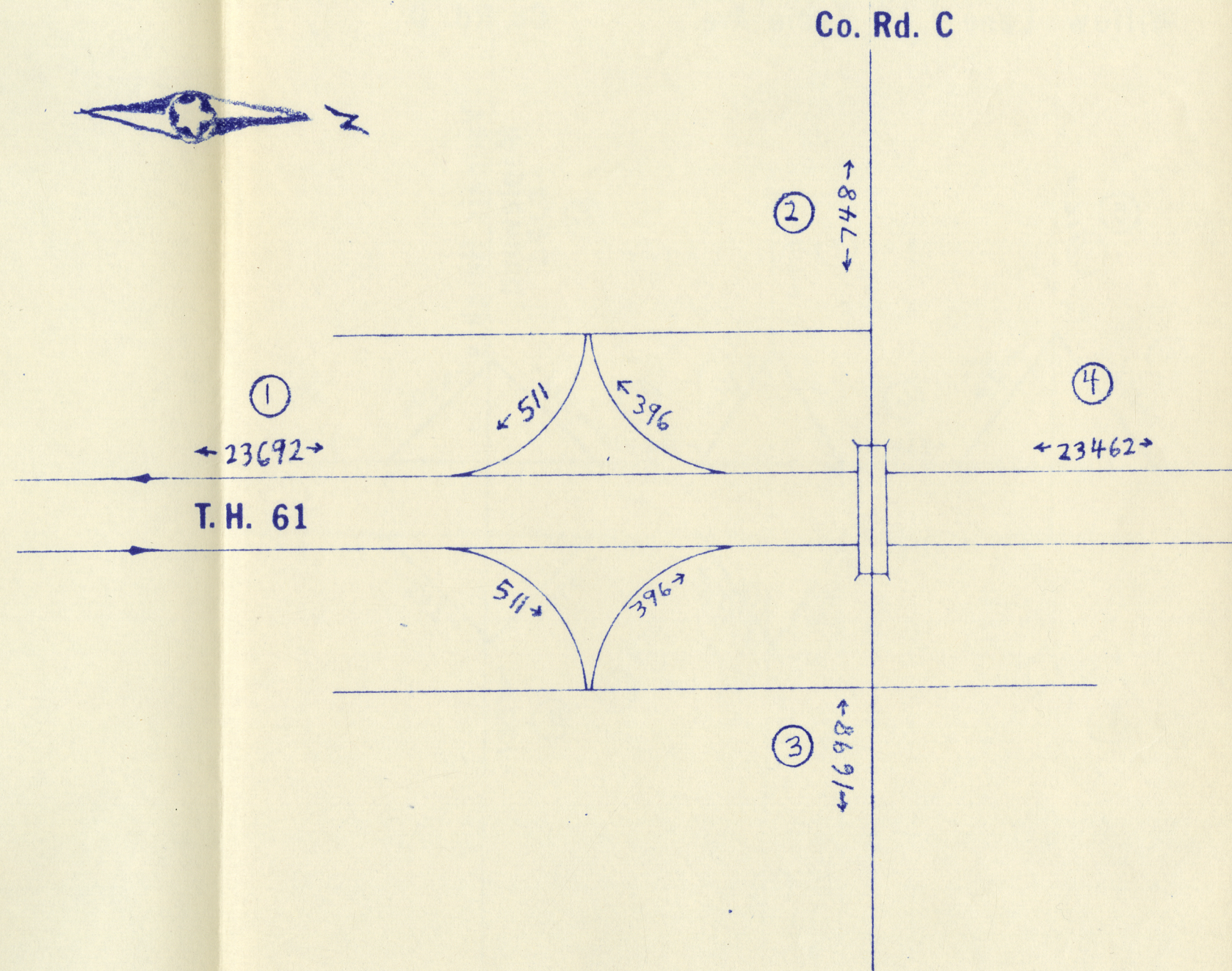
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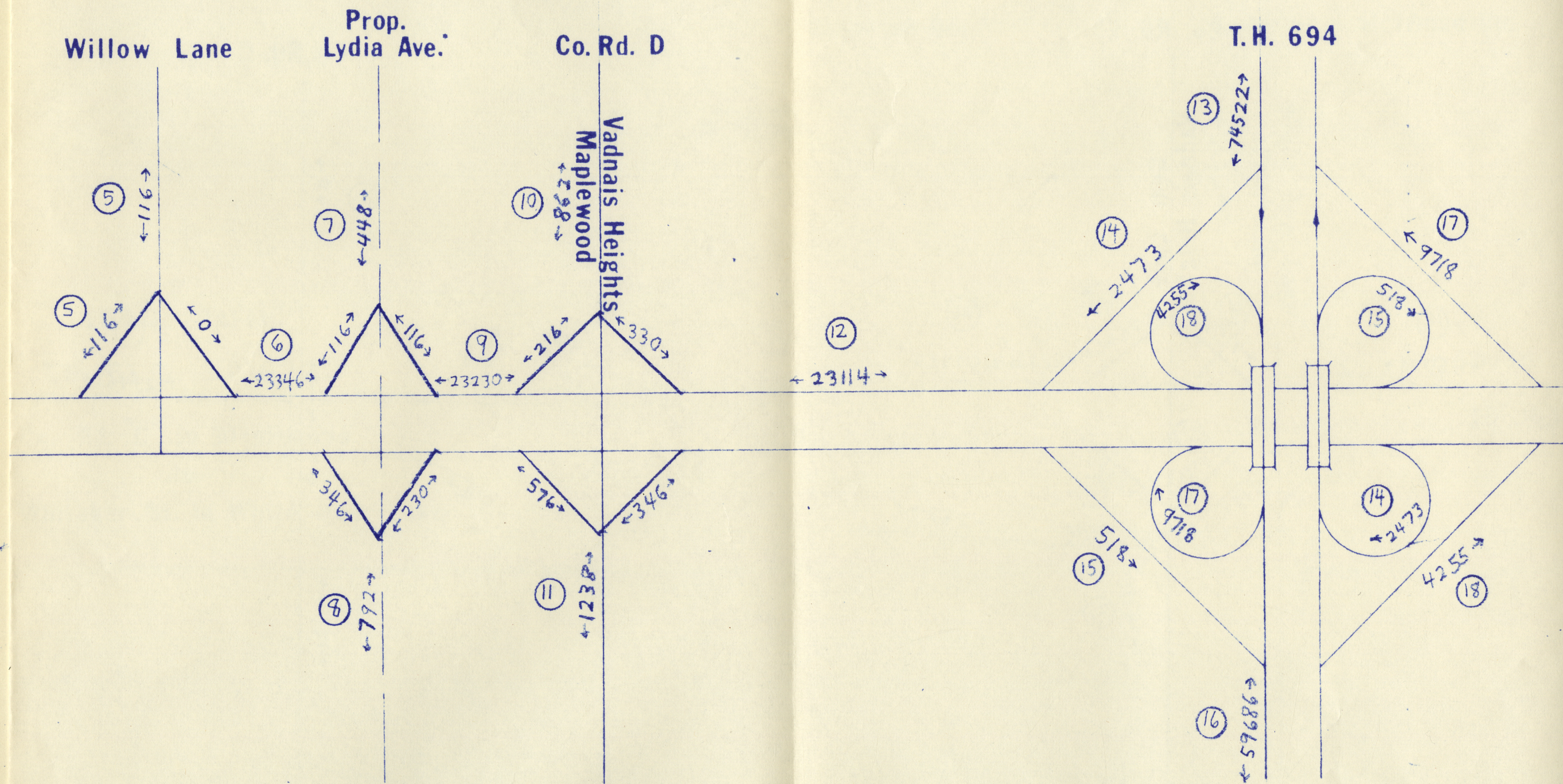
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STATE OF MINNESOTA
DEPARTMENT OF HIGHWAYS
WORK MAP



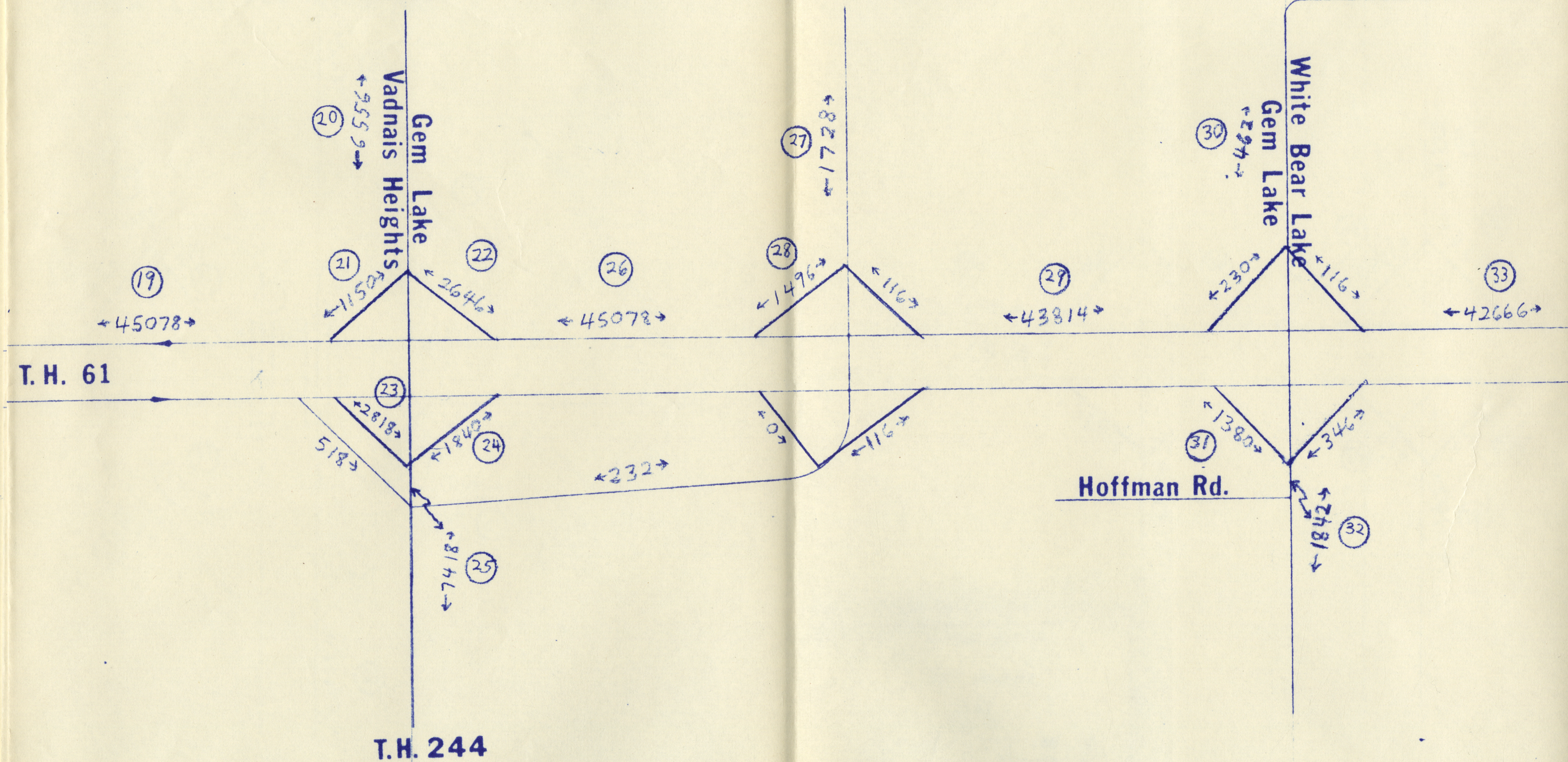
1990 TRAFFIC
T.H. 61 S.P. 6222
Co. Rd. "C" in Maplewood
to
Whitaker St. in White Bear Lake

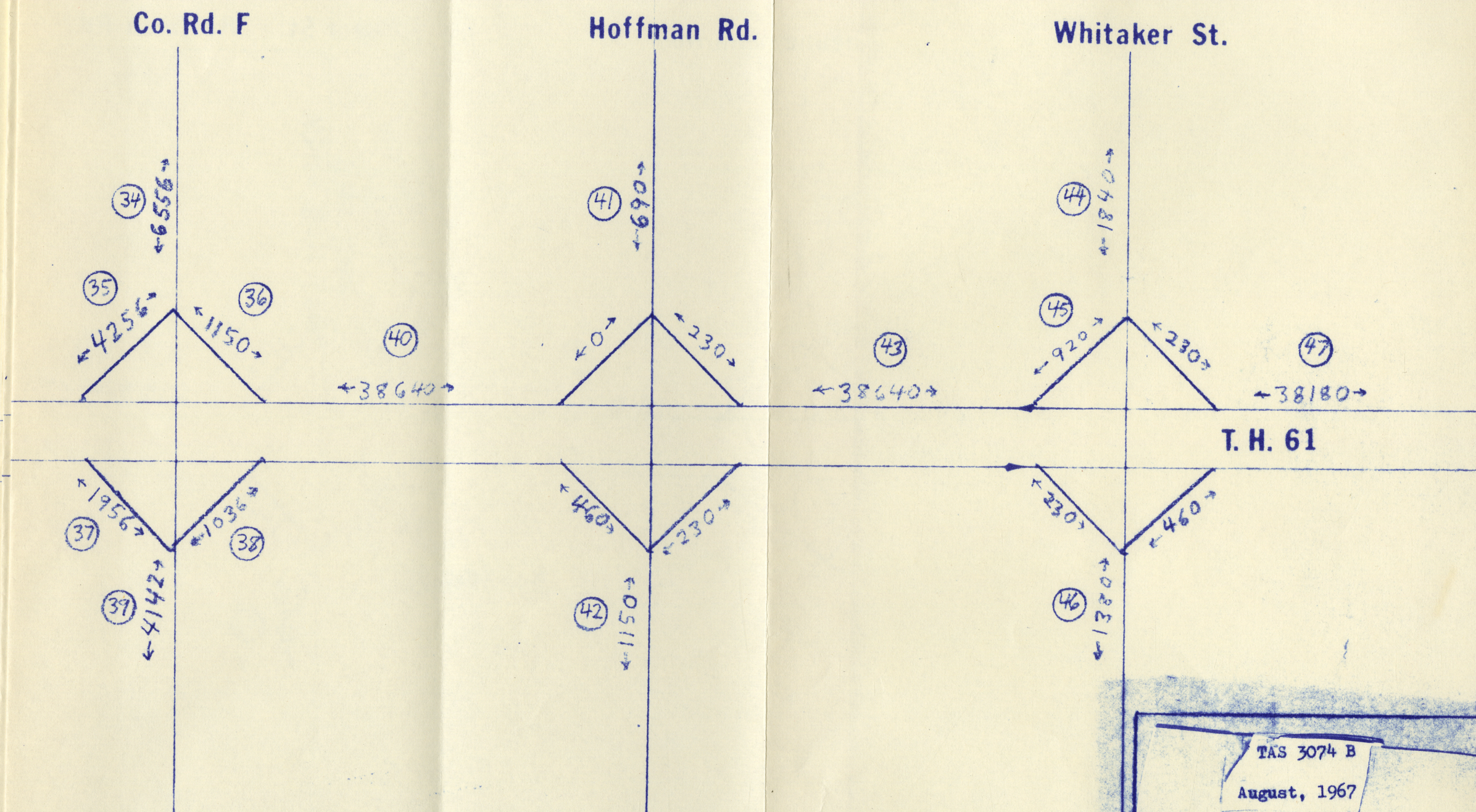
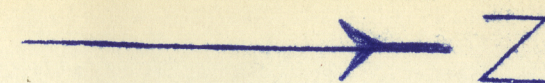




* Lydia Ave. would be constructed from Century Ave. in Maplewood to Labore Rd. in Little Canada.

Cedar St. - Hoffman Rd.





TAS 3074 B

August, 1967

TH 61

SP 6222

Co. Rd. "C" in Maplewood to
Whitaker St. in White Bear Lake

LEGEND

Segment Number.....47
1990 ADT.....38180

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 1 OF 5

FOR

T.H. 61 S.P. 6222 LENGTH - MILES
 COUNTY Ramsey LOCATION Co. Rd. "C" in Maplewood to
Whitaker St. in White Bear Lake.

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 1 THROUGH 11 AS
 DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	1	2	3	4	5	6	7	8	9	10	11
0	22722	687	1558	22511	109	22402	420	746	22293	809	1162
1	616	39	88	604	4	600	13	22	597	24	35
2	137	6	13	135	1	134	5	8	133	9	13
3	31	1	3	31	-	31	-	-	31	1	1
4	57	1	3	57	-	57	1	2	57	1	1
5	76	1	3	75	-	75	2	3	74	4	6
6	53	13	30	49	2	47	7	11	45	14	20
TOTAL ADT	23692	748	1698	23462	116	23346	448	792	23230	862	1238
TOTAL H. COMM. ADT	970	61	140	951	7	944	28	46	937	53	76
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 2 OF 5

FOR

T.H. 61 S.P. 6222 LENGTH - MILES
 COUNTY Ramsey LOCATION Co. Rd. "C" in Maplewood to
Whitaker St. in White Bear Lake.

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 12 THROUGH 22 AS
 DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	12	13	14	15	16	17	18	19	20	21	22
0	22184	70430	2336	489	56408	9185	4021	42946	6256	1097	2525
1	594	1241	41	9	995	162	71	960	136	24	55
2	132	744	25	5	556	97	43	352	51	9	21
3	31	141	5	1	113	18	8	71	4	1	2
4	57	231	8	2	185	30	13	123	6	1	2
5	73	975	33	7	781	127	56	359	26	4	9
6	43	760	25	5	608	99	43	267	77	14	32
TOTAL ADT	23114	74522	2473	518	59686	9718	4255	45078	6556	1150	2646
TOTAL H. COMM. ADT	930	4092	137	29	3278	533	234	2132	300	53	121
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS
 2 = SINGLE UNIT-3 AXLE TRUCKS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES
 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 3 OF 5

FOR

T.H. 61 S.P. 6222 LENGTH - MILESCOUNTY Ramsey LOCATION County Road "C" inMaplewood to Witaker St. in White Bear Lake

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 23 THROUGH 33 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	23	24	25	26	27	28	29	30	31	32	33
0	2690	1756	7080	42946	1622	1404	41760	434	1296	1730	40682
1	58	38	153	960	48	42	924	13	38	51	893
2	22	14	57	352	18	16	338	5	15	20	326
3	2	2	5	72	1	1	71	-	2	3	69
4	2	2	7	123	2	2	121	1	3	4	118
5	10	6	29	358	9	8	351	2	6	8	346
6	34	22	87	267	28	23	249	7	20	26	232
TOTAL ADT	2818	1840	7418	45078	1728	1496	43814	462	1380	1842	42666
TOTAL H. COMM. ADT	128	84	338	2132	106	92	2054	28	84	112	1984
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS

1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS

2 = SINGLE UNIT-3 AXLE TRUCKS

3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES

4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES

5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES

6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 4 OF 5

FOR

T.H. 61 S.P. 6222 LENGTH - MILESCOUNTY Ramsey LOCATION County Road "C" inMaplewood to Whitaker St. in White Bear Lake

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 34 THROUGH 44 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE # TYPE	SEGMENT NUMBER										
	34	35	36	37	38	39	40	41	42	43	44
0	6216	4036	1091	1856	983	3928	36864	648	1080	36864	1728
1	155	100	27	46	24	98	798	19	32	798	51
2	58	38	10	17	9	36	290	7	12	290	19
3	5	3	1	2	1	4	66	-	1	66	2
4	7	5	1	2	1	4	113	1	2	113	3
5	29	19	5	8	5	18	329	4	7	329	11
6	86	55	15	25	13	54	180	11	16	180	26
TOTAL ADT	6556	4256	1150	1956	1036	4142	38640	690	1150	38640	1840
TOTAL H. COMM. ADT	340	220	59	100	53	214	1776	42	70	1776	112
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS

1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS

2 = SINGLE UNIT-3 AXLE TRUCKS

3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES

4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES

5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES

6 = BUSES AND TRUCKS WITH TRAILERS

TRAFFIC ESTIMATE DATA

DESIGN YEAR 1990 PART 5 OF 5

FOR

T.H. 61 S.P. 6222 LENGTH - MILESCOUNTY Ramsey LOCATION Co. Rd. "C" in Maplewood
to Whitaker St. in White Bear Lake

BASED ON

1990 ADT FROM TRAFFIC ANALYSIS UNIT

SHOWING

TOTAL ADT ON SEGMENTS 45 THROUGH 47 AS

DEFINED ON ATTACHED INDEX MAP

VEHICLE * TYPE	SEGMENT NUMBER										
	45	46	47								
0	864	1296	36432								
1	25	38	785								
2	10	14	285								
3	1	1	66								
4	2	2	112								
5	5	8	326								
6	13	21	174								
TOTAL ADT	920	1380	38180								
TOTAL H. COMM. ADT	56	84	1748								
TOTAL DHV											
DIRECTIONAL DISTRIBUTION											

* VEHICLE TYPE CODE

0 = PASSENGER CARS AND 4 TIRE TRUCKS 4 = TRACTOR-TRUCK OR SEMI-TRAILER - 4 AXLES
 1 = SINGLE UNIT-2 AXLE-6 TIRE TRUCKS 5 = TRACTOR-TRUCK OR SEMI-TRAILER - 5 AXLES
 2 = SINGLE UNIT-3 AXLE TRUCKS 6 = BUSES AND TRUCKS WITH TRAILERS
 3 = TRACTOR-TRUCK OR SEMI-TRAILER- 3 AXLES

BASIC DATA, METHOD, AND ASSUMPTIONS

The System 10 1990 ADT and DHV for the project were transmitted by the Metropolitan Study Unit in TAS 487 on May 31, 1967.

Percentages computed from the System 10 1985 HCADT and 1985 ADT were applied to the 1990 ADT to obtain the 1990 HCADT used for this report.

The T.H. 61 vehicle types were initially based on a 16 hour classification count conducted from T.H. 61 north of T.H. 36. The count was first adjusted to 1966 ADT and projected to 1990 ADT. Then it was adjusted to reflect diversions to a completed Interstate System. Heavy truck interviews at two stations in the 1966 statewide origin-destination study were used to distribute externally generated trips to the project section of T.H. 61 and also to T.H. 35E and T.H. 694. The two origin-destination studies used for the assignment were on T.H. 61 north of Forest Lake and T.H. 8 northeast of Forest Lake.

The vehicle type distributions for T.H. 694 result from a study of the origins and destinations of the varieties of commercial vehicles contacting the study area in addition to a study of the classification recorded for routes influencing the study area.

The vehicle type distributions for the remainder of the project are based on the pattern of classification counts recorded in the study area.